

Substitute for Form 1449 A &amp; B/PTO

Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Application Number	10/542,373
Confirmation Number	7793
Filing Date	July 14, 2005
First Named Inventor	Tomoo MIZUMURA
Art Unit	1796
Examiner Name	Jill M. GRAY
Attorney Docket Number	Q88943

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	1	US 7,087,299	B2	08-08-2006	TEIJIN FIBERS LTD
	2	US 7,189,797	B2	03-13-2007	TEIJIN LTD
	3	US 6,284,370	B1	09-04-2001	FUJIMOTO ET AL
	4	US 6,316,101	B2	11-13-2001	KATO ET AL
	5	US 2003/0059612	A1	03-27-2003	CHO ET AL
	6	US 2006/0147709	A1	07-06-2006	MIZUMURA ET AL
	7	US 2006/0057373	A1	03-16-2006	TEIJIN FIBERS LTD
	8	US 2006/0051576	A1	03-09-2006	SOEDA ET AL
	9	US 4,254,018		03-03-1981	AKZONA INC.

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	10	JP	11350250	A	12-21-1999	UNITAKA LTD	Abstract
	11	EP	1 156 070	A1	11-21-2001	SK CHEMICAL CO, LTD	
	12	JP	2003-160655	A	06-03-2003	TEIJIN LTD	Abstract
	13	JP	2003-119619		04-23-2003	TEIJIN LTD	Abstract
	14	WO	03/027166	A1	04-03-2003	TEIJIN LTD	
	15	JP	2003-293222		10-15-2003		Abstract
	16	WO	92/13119	A1	08-06-1992	COLLINS ET AL	Abstract
	17	GB	769220		03-06-1957		
	18	WO	9619520	A1	06-27-1996	EASTMAN CHEMICAL CO.	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
	19	DATABASE WPI, Section Ch, Week 198742, Derwent Publications Ltd., London, GB; AN 1987-294861	
	20	DATABASE WPI, Section Ch, Week 199429, Derwent Publications Ltd., London, GB; AN1994-238136	
	21	DATABASE WPI, Section Ch, Week 199419, Derwent Publications Ltd., London, GB; AN 1994-156722	
	22	DATABASE WPI, Section Ch, Week 200126, Derwent Publications Ltd., London, GB; AN 2001-247935	

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/542,373
				Confirmation Number	7793
				Filing Date	July 14, 2005
				First Named Inventor	Tomoo MIZUMURA
				Art Unit	1774
				Examiner Name	Jill M. GRAY
Sheet	2	of	3	Attorney Docket Number	Q88943

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	23	US 5,331,032		07-19-1994	SUZUKI ET AL
	24	US 6,593,447		07-15-2003	TEIJIN LTD
	25	US 2006/014920		01-19-2006	SHIRAKAWA ET AL
	26	US 4,208,527		06-17-1980	HORLBÉCK ET AL
	27	US 4,254,018		03-03-1981	KOWALLIK ET AL
	28	US 5,565,522		10-15-1996	BOHRINGER ET AL
	29	US 5,744,572		04-28-1998	SCHUMANN ET AL
	30	US 5,981,690		11-09-1999	LUSTIG ET AL
	31	US 6,262,220		07-17-2001	PASCHKE ET AL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	32	EP	1094137	A1	09-10-2000	BERGMANN ET AL	Abstract
	33	EP	1110988	A1	06-23-2000	TEIJIN LTD	
	34	EP	1273610	A1	06-02-2002	MITSUBISHI CHEMICAL CORP	
	35	WO	02070451	A1	09-12-2002	DUAN, J	
	36	WO	9910573	A1	03-04-1999	DEAN ET AL	
	37	JP	9119051	A	05-06-1997		Abstract
	38	JP	2003-119270	A	04-23-2003		Abstract
	39	JP	2003-150655	A	05-23-2003	SEKISUI CHEM CO LTD	Abstract
	40	EP	1 437 373	A1	07-14-2004	TEIJIN LTD	
	41	CN	1078274	A	11-10-1993		
	42	CN	1302923	A	07-11-2001		
	43	JP	47-26597		10-25-1972		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO  <b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/542,373
				Confirmation Number	7793
				Filing Date	July 14, 2005
				First Named Inventor	Tomoo MIZUMURA
				Art Unit	1796
				Examiner Name	Jill M. GRAY
Sheet	3	of	3	Attorney Docket Number	Q88943

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	44	US 6,231,976	B1	05-15-2001	EASTMAN CHEMICAL CO
	45	US 6,197,856	B1	03-06-2001	EASTMAN CHEMICAL CO
	46	US 6,359,079	B1	03-19-2002	PALMER, JR
	47	US 6,672,208	B2	01-06-2004	BECHTLER ET AL
	48	US 6,701,302	B1	03-02-2004	SCHAEFFER ET AL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	49	WO	2004063441	A1	07-29-2004	TEIJIN LTD	Abstract
	50	JP	48-2229		01-12-1973		No
	51	JP	05106168	A	04-27-1993	TEIJIN LTD	Abstract
		WO	0181662	A1	11-01-2001		Abstract
		WO	9627036	A	09-06-1996		Abstract
		JP	62-162014	A	07-17-1987	MITSUBISHI RAYON CO LTD	Abstract
		JP	63-12737	A	01-20-1988	TEIJIN LTD	Abstract
		JP	10-96119	A	04-14-1998	TEIJIN LTD	Abstract
		JP	10-25633	A	01-27-1998	TEIJIN LTD	Abstract
		JP	9-111539	A	04-28-1997	TEIJIN LTD	Abstract
		EP	0 758 027	A1	02-12-1997	TEIJIN LTD	
		EP	1 209 260	A1	05-29-2002	TEIJIN LTD	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.